

Comparisons of Job Characteristics

Focus Occupation: [Electrical Power-Line Installers and Repairers \(49-9051\)](#)

Associated Occupation: [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 49

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	17.5	5.7	<< Extensive education and/or training may be required
Mechanical	6.8	16.4	14.0	< Expanded education and/or training may be required
Engineering and Technology	5.7	11.7	9.4	< Expanded education and/or training may be required
Design	5.2	9.6	8.0	< Expanded education and/or training may be required
Telecommunications	3.9	6.9	6.3	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 69

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Quality Control Analysis	5.9	13.3	10.1	<< Extensive development of skills in this area may be required
Repairing	3.4	13.3	9.6	<< Extensive development of skills in this area may be required
Operation Monitoring	6.6	12.6	9.8	<< Extensive development of skills in this area may be required
Troubleshooting	4.5	12.0	10.5	< A higher skill level may be required
Equipment Maintenance	3.5	11.1	7.9	<< Extensive development of skills in this area may be required

Equipment Selection	3.3	10.5	5.3	<<	Extensive development of skills in this area may be required
Installation	1.7	9.3	3.7	<<	Extensive development of skills in this area may be required
Technology Design	2.6	6.3	2.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 72			
Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	12.9	10.1	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.9	8.3	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.2	10.8	0	Current ability level may be sufficient
Flexibility of Closure	7.8	11.0	7.5	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	10.7	6.4	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	8.5	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	9.3	5.5	<<	Extensive improvement in abilities may be required
Speed of Closure	5.9	8.8	6.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 73
Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	

Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 85

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Tools and Technologies	Exclusivity
Aerial lifts	13
Anti static equipment and supplies	56
Business function specific software	1
Compressors	9
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Information exchange software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Personal communication devices	2
Pneumatic tools	8
Power generators	16
Power tools	2
Prying and bending tools	10
Pulling tools	31
Rough and finishing tools	5
Safety apparel	4

Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.